***Pacing Guide for Middle Grades Math 6th***

***Halifax County Schools***

***2016-2017***

Grade 6

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| **Unit Title: THE NUMBER SYSTEM** | | | | | |
| **The Big Idea: Do you possess number sense?**  **Project: Create Your Own Math Game** | | | | | |
| ***Unit*** | ***Dates*** | ***Days*** | ***Assessment*** | ***Topics*** | ***Standards*** |
| Unit 1  27-32% | August 29 - October 28, 2016 | 44 | **District Pre-Test:** Week of Aug. 29-Aug. 31, 2016  **Common Formative Assessment I:** Week of Oct. 5-7, 2016  **Teacher-Generated Assessment Dates:**   * 9/2/16 * 9/9/16 * 9/16/16 * 9/23/16 * 9/30/16 * 10/14/16 * 10/21/16 * 10/28/16 | * Representing Integers * Real-World Connections * Situational Key Words * Vertical and Horizontal Number Lines Introduction to the Coordinate Plane * Opposites * Rational Numbers on the Coordinate Plane * Comparing and Ordering Integers and Rational Numbers on the Number Line. * Statements of Comparison * Absolute Value * Comparing with Absolute Value * Distance on the Coordinate Plane * Finding the Greatest Common Factor of Whole Numbers * Finding the Least Common Multiple of Whole Numbers * Using the Distributive Property * Dividing Whole Numbers Using the Standard Algorithm * Add, Subtract, Multiply, and Divide Decimals * Dividing Fractions | 6.NS.5  6.NS.6  6.NS.7  6.NS.8  6.NS.4  6.NS.2  6.NS.3  6.NS.1 |

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| **Unit Title: EXPRESSIONS AND EQUATIONS** | | | | | |
| **The Big Idea: Can You Express Yourself with Algebra?**  **Project: Career Day** | | | | | |
| Unit 2  27-32% | October 31- January 19, 2016 | 46 | **Common Formative Assessment II:**  Week of Dec. 7-9, 2016  **Teacher-Generated Assessment Dates:**   * 11/4/16 * 11/10/16 * 11/18/16 * 12/02/16 * 01/06/17 * 01/13/17 * 01/19/17 | * Order of Operations * Evaluating Numerical Expressions * Mathematical Symbols * Difference Between Algebraic and Numerical Expressions * Evaluating Algebraic Expressions * Writing Algebraic Expressions * Identifying Expressions Using Math Terms * Use of Variables in Formulas * Equivalent Equations * Applying the Distributive Property * Equivalent Expressions With the Same Number * Solving Equations * Solving Inequality * Writing Expressions (for given scenarios). * Equations with Unknown Variable Values * Write Inequalities to represent real-life situations. * Inequalities on the Number Line. * Independent and Dependent Variables * Function Tables * Discrete Data * Distance/Rate/Time | 6.EE.1  6.EE.2  6.EE.2a  6.EE.2b  6.EE.2c  6.EE.3  6.EE.4  6.EE.5  6.EE.6  6.EE.7  6.EE.8  6.EE.9 |

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| **Unit Title: RATIOS AND PROPORTIONAL REASONING** | | | | | |
| **The Big Idea: How can I apply ratio concepts to real-life?**  **Project: Re-Write a Recipe (http://www.ehow.com/info\_8214043\_middle-school-ratio-proportion-projects.html)** | | | | | |
| Unit 3  12-17% | January 20 – March 3, 2017 | 28 | **Common Formative Assessment III:** Week of Feb 20 - Feb 24, 2017  **Teacher-Generated Assessment Dates:**   * 02/03/17 * 02/10/17 * 02/17/17 * 03/3/17 | * Compare/Order Rational Numbers/Irrational Numbers * Using ratio language to describe a ratio relationship between two quantities. * Writing ratios in the form a:b * Associating unit rate a/b to a ratio a:b where b is not equal to zero * Solve unit rate problems * Determine Unit rate involving Pricing * Finding Unit rate involving constant speed * Making tables of equivalent ratios relating quantities with whole -number measurements * Finding missing values in the table * Plotting pairs of values on the coordinate plane * Using tables to compare ratios * Finding a percent of a quantity | 6.RP.1  6.RP.2  6.RP.3.b  6.RP.3.a  6.RP.3.c  6.RP.3.d |

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| **Unit Title: GEOMETRY** | | | | | |
| **The Big Idea: Can I connect 3-Dimensional figures to real-life?**  **Project: Design Your Dream House** | | | | | |
| Unit 4  12-17% | March 6 – April 13, 2016 | 28 | **Teacher-Generated Assessment Dates:**   * 03/10/17 * 03/17/17 * 03/24/17 * 03/31/17 * 04/07/17 * 04/13/17 | * Identifying Polygons * Finding Areas of Polygons (Triangles and special quadrilaterals) * Decompose and Compose Polygons into Rectangles and triangles and find the Area * Solve real-world problems involving Area. * Constructing Polygons in the Coordinate Plane. * Finding the distance between two points in the coordinate plane. * Finding the Area and Perimeter of geometric figures drawn on a coordinate plane. * Identify the Nets of 3D figures * Finding Surface Area * Finding the Volume of 3D figures. | 6.G.1  6.G.3  6.G.4  6.G.2 |

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| **UNIT TITLE: STATISTICS AND PROBABILITY** | | | | | |
| **The Big Idea: Can I Represent Data?**  **Project: Data All Around Us** | | | | | |
| Unit 5  7-12% | April 24 – May 19, 2017 | 20 | **Common Formative Assessment IV (Post Test):** Week of May 15 – April 19, 2017  **Teacher-Generated Assessment Dates:**   * 04/28/17 * 05/05/17 * 05/12/17 | * Statistical and Non-Statistical Question * Describing data in a graph by its center, spread and overall shape. * Finding the Mean, Median, Mode and range of a set of data or a graph. * Display data using number lines, dot plots, histograms and box plots. * Determining the appropriate graph for a set of data. * Read data from graphs. * Finding a missing value in a data set to produce a specific average. * Finding the Inter quartile range. * Describing the variability of the data set by determining the Mean Absolute Deviation (MAD) | 6.SP.1  6.SP.2  6.SP.3  6.SP.4  6.SP.5a  6.SP.5b  6.SP.5c  6.SP.5d |

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| **UNIT TITLE: COUNTDOWN TO THE EOG** | | | | | | |
| Unit 6 | May 22 – June 9, 2017 | 14 | **EOG Testing:**   * Begin | EOG REVIEW   * Formulas * Vocabulary * Symbols * Test-Taking Strategies * Number System * Ratios and Proportions * Algebra * Geometry * Statistics | 6.NS.5  6.NS.6  6.NS.7  6.NS.8  6.NC.4  6.NS.2  6.NS.3  6.NS.1  6.RP.1  6.RP.2  6.RP.3.b  6.RP.3.a  6.RP.3.c  6.RP.3.d  6.EE.1  6.EE.2  6.EE.2a  6.EE.2b  6.EE.2c | 6.EE.3  6.EE.4  6.EE.5  6.EE.6  6.EE.7  6.EE.8  6.EE.9  6.G.1  6.G.3  6.G.4  6.G.2  6.SP.1  6.SP.2  6.SP.3  6.SP.4  6.SP.5a  6.SP.5b  6.SP.5c  6.SP.5d |

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| **Dates** | **Events to Remember** |
| 08/29/2016-8/31/2016 | Pre- Assessment (Options – NC Released Test, Study Island Diagnostic, or Schoolnet) |
| 09/19/2016 – 09/23/2016 | HS 1st Common Assessment (Math I – HS) |
| 10/5/2016 - 10/7/2016 | 1st Common Assessment (Middle) |
| 10/13/2016 | PLC Meeting (MS/HS) Teachers |
| 10/26/2016 – 10/28/2016 | HS 2nd Common Assessment (Math I – HS) |
| 12/7/2016 - 12/9/2016 | 2nd Common Assessment (Middle) |
| 12/07/2016 – 12/9/2016 | HS 3rd Common Assessment (Math I – HS) |
| 12/15/2016 | PLC Meeting (MS/HS) Teachers |
| 2/20/2017 - 2/24/2017 | 3rd Common Assessment (Middle) |
| 2/20/2017 - 2/24/2017 | HS 4th Common Assessment (Math I – HS) |
| 3/9/2017 | PLC Meeting (MS/HS) Teachers |
| 4/10/2017 – 4/13/2017 | HS 5th Common Assessment (Math I – HS) |
| 5/15/2017 - 5/19/2017 | Post Assessment (Middle/High) |
| 5/11/2017 | PLC Meeting (MS/HS) Teachers |

**Legend: High School**

**Middle School**

**Both Middle & High (PLC)**